

Use Attainability Analysis

for

WBID 1252 Norris Creek

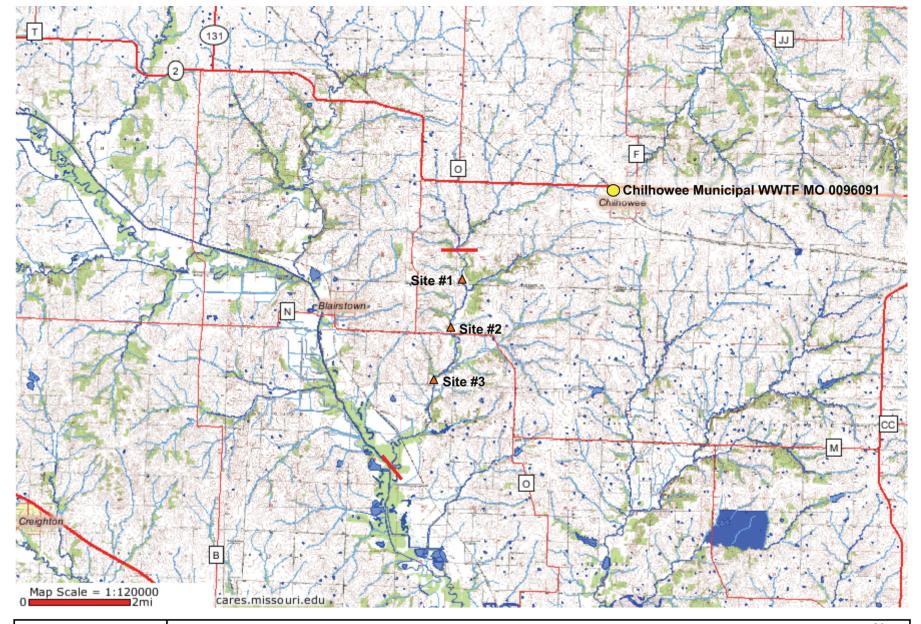
Submitted by BWR

June 1, 2007

Submitted to:
Missouri Department of Natural Resources
Division of Environmental Quality
Water Protection Program

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Wa I. Water Body Information (For water body being su	ater Body Identification SITE rveyed)
Water Body Name (from USGS 7.5' quad):	Jorris Creek
Missouri Water Body Identification (WBID) Nur	
8-digit HUC: /02/90/68	County: Johnson
Upstream Legal Description (from Table H):	33 HHN 27W
Downstream Legal Description(from Table H):	Mayfa
Number of sites evaluated 3	11/00011
Care Administration of Section Control	
List all sites numbers, listed consequently upstream 3, 2, 1	am to downstream:
Site Locations Map(s): Attach a map of entire segnany other items that may be of interest. II. Subegmentation (fill this section out only in call Location Coordinates (UNIVERSAL TRANSVERSE MERCATOR P	ses where subesymentation is being proposed)
Upstream Coordinates:	Downstream Coordinates:
UTM X Y	UTM X Y
 HORIZONTAL COLLECTION METHOD (Indicate the method used to dete Global Positioning System (GPS) 	rmine the locational data.) Interpolation
Static Mode	Topographic Map or DRG
Dynamic Mode (Kinematic)	Aerial Photograph or DOQQ
Precise Positioning Service	Satellite Imagery
Signal Averaging	Interpolation Other
Real Time Differential Processing	
HORIZONTAL ACCURACY ESTIMATE	I have delice Day O. W.
GPS Data Quality FOM ±Meters	Interpolation Data Quality Source Map Scale: 1:24,000 1:100,000 Other
EPE	The state of the s
PDOP	±Feet or ±Meters
III. Discharger Facility Information (list all permitt	
Discharger Facility Name(s): Chilhowe	le Municipal WWTF
Discharger Permit Number(s):	0096091
IV. UAA Surveyor (please print legibly)	
Name of Surveyor Alan Mitchell	Telephone Number:
Organization/Employer: EAE	
Position: Jean Leader	
Please verify that you have completed all sections	, checked all applicable boxes and that everything is
complete.	, Transfer
Signed: Alone With M	Date: May 21/2007
February 5, 2007	Page 22





Norris Creek WBID #1252



WBID#	1252
Site#	1

Field Data Sheets for Recreational Use Stream Surveys Data Sheet B - Site Characterization

				(must be	completed f	for each s	site)		
Date & Time:	12:30 p		1200	7	Site Locat	ion Descrip	otion (e.g	., road crossing):	SW1300#RD CRNW
Personnel (Data Collectors): Alau Mitchell				7 (400 (3	1400 (JOHNSON HENRY CO, LINE) BRIDGE CROSSING				
Current Weather Conditions: Clear				Facility N	Facility Name: Chilhowee Municipal WMTF				
Weather Condit	tions for Pas	t 10 days: Q	ear		Permit Nu			096091	
Drought Condit	ions?: No d			Phase II □;	Phase III :	Phase IV	l: Unkno	own 🗆	
ite Locations							,		Service Company of the Company of th
LOCATION COOF		NIVERSAL TRA	NSVERSE	MERCATOR	PROJECTION I	IN METERS	o t er in the s	4 - 4	
Site GPS Coo			Test (and a second	1	^				And the second second
The second of th		/ -		329°W		T: 38	2549	82° N	
HORIZONTAL CI					termine the locat	tional data.)	100		
	Global	Positioning Sy	stem (GF	PS)				Interpolat	ion
Static Mode						Topographic		61.32	
Dynamic Mode (K		E-24.				Aerial Photog		OQQ	
Precise Positionin	g Service	SSEC			1 9	Satellite Imag	gery		
Signal Averaging						Interpolation	Other		
Real Time Differer	ntial Processin	ng					-11-22-1		
HORIZONTAL AC	CURACY EST	TIMATE					MARKE, L		
		GPS Data Qua		A STATE OF THE STA		Market To t make the a	ATTEMPTO		
Secretary of the secretary		GI S Data Qua	anty					Interpolation Dat	a Quality
FOM	±	M	leters				Me- C	4.04.000	200 04
EPE		East a	- L	Matara		Source	Map Scal	e: 1:24,000 1:100,	000 Other
0.72.26	±	reet c	or ±	Meters			±	Feet or ±	Meters
PDOP				A Marie Company of the Company of th					
notos:									T. X. Albert Marie and Control of the Control of th
T	In at an an Dh	-14			D	4			
	Jpstream Ph	Otos			Downstream P	ownstream Photos			Other Photos
Photo ID#	Ph	oto Purpose	P	Photo ID#	noto ID# Photo Purpose			Photo ID#	Photo Purpose
15&16				17 818					
ses Observe	d*: (Uses	actually ob	served	at time of	f survey)				
	- (5555						Alleria de la companya della companya della companya de la companya de la companya della company		
☐ Swimming		☐ Skin div	ing		CUBA diving		☐ Tubi	ng	☐ Water skiing
		· · ·							
☐ Wind surfing	g	☐ Kayakin	g	□ B	oating	ating Wading		Rafting	
☐ Hunting		☐ Trappin	g	☐ Fi	ishing		None	of the above	☐ Other:
Describe: (Inclu Use Interview v	ide number o when conduc	of individuals	recreating						se Data Sheet D- Recreation
						anne de la company			1. Nat/Automotiv
irrounding C	ondition	s*: (Mark a	all that i	promote of	r impede red	creational	uses.	Attach photos	of evidence or
usual items of	interest.)	TO AN ANCIONAL PROPERTY OF				······································			
			Т		West Committee Committee	-			
☐ City/county	parks	☐ Playgrou	unds	☐ MDC co	nservation lan	ds	☐ Urba	n areas	☐ Campgrounds
☐ Boating acc	esses	☐ State par	rks	☐ National	l forests		☐ Natur	e-trails	☐ Stairs/walkway
☐ No trespass	sign	☐ Fence		☐ Steep sle	opes		-/	of the above	☐ Other:
Comments:		1		1	# 248310		7/03/45		1 - 0
dications of	Human l	Jse*: (attac	ch phot	tos)			C-17-COLD		
Roads	☐ Rope		A SECTION AND ADDRESS OF THE PARTY OF THE PA	aths/prints	☐ Dock/pla	atform	Liv	estock Watering	□ RV / ATV Tracks
			15.			218 9			
☐ Camping Sit	tes		Fire pit	/ring	☐ NPDES	Discharge	☐ Fi	shing Tackle	☐ Other:
Comments:		2		220. 220.					-
		JAM VIJA-	1.1.	111 -	-10110	000			
February .	5, 2007	4.W-MU	iene	C D	121/20	90/			Page 23

SITE 1 Inng Rur * Page Two – Data Sheet B for WBID # 1252 Stream Morphology: Upstream View's Physical Dimensions: Is there any water present at this view? If so, is there an obvious current? □ No Select one of the following channel features: Channel Feature Distance from access (m) Width (m) Length (m) Median Depth (m) Max. Depth (m) RIFFLE RUN 0 >1.0 10 100 POOL Downstream View's Physical Dimensions: Is there any water present at this view? Yes If so, is there an obvious current? 1 Yes □ No Select one of the following channel features: Channel Feature Distance from access (m) Width (m) Length (m) Median Depth (m) Max. Depth (m) RIFFLE RUN 10 100 71.0 POOL Substrate*: (These values should add up to 100%.) % Cobble % Gravel % Sand % Silt 90% Mud/Clay % Bedrock Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site) Water Characteristics*: (Mark all that apply.) Odor: ☐ Sewage ☐ Musky None None ☐ Chemical ☐ Other: Color: Green ☐ Clear ☐ Gray ☐ Milky ☐ Other: Bottom Deposit: ☐ Sludge ☐ Solids ☐ Fine sediments None ☐ Other: Surface Deposit: □ Oil ☐ Scum ☐ Foam None ☐ Other: Comments: Please attach any additional comments () to this form. *This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use. Please verify that you have completed all sections, checked all applicable boxes and that everything is complete. Surveyor's Signature: Oloub. Methell ___Date of Survey: May 21, 2001

Position: Eur. Eugn Organization: EAE Inc

WBID (252

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

		Distance from Stream edge	Depth	Rank		Assigned Rank	Sorted depth Fle, or Paol)
TA	1	wetted midth =	<0.1	 		1	TIE, OF FOOT
3.6.3		2-5 m	0.3			2	
	3	6.9	0.3				8-24 ppm
	4		0-3				90-4%
	5		0.2			5	V9.2°C
	O		0.2			6	11120
	7		0.3			7	
	8		07			8	
	9		0.4			9	
	10		0-1			10	
	1	Wetted Width	001			11 Do	
TB	2	7-5	0-4			12 8-10	PPW
IB	2	Interval	0-4			13 86.0	0/0
	4	0.7	0.4			14 18-8	00
	5		0+5			15	
	V		0.5			16 RUN	
	7		0.5			17	
	8		0.4			18	
	9		0.2			19	
DE WEITE	10		<0.1			20	
	1	Wetled Wighth	0,(21 DO	
	2	5.5	0.4			22 8.22	SPH
	3	Interval	0.6			23 <u>88-3</u> 24 18-7	SPM Sp
Tc	45	0.5	0.6		88s	24 18-7	00
			0,6			25	
	6		0.5	10		26 RUNI	
	7		0.6	- E			
	8		0.5		ALC: N		
	9		0.5	ļ			
	10		<0.1		-	n	
				-			
						(%)	100

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Harle Mithell	Date: May 21, 2007
Organization: EAB - Mex	Position: Eur Europ

5 WB/D 1252 Site 1

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

	Distance from	Depth	Rank	Assigned Rank	Sorted depth
	Stream edge				
TD	1 Wetled Width	<0.1		1 50	
D	2 9.0	0.4		2 8.06	DOUL
	3 Interval	0.8		3 87-2	100
	4 0.7	0.8		4 18. 7	DOUL SOUL
	5	0.8		5	
	5	0.8		6	
	7	0.8		7	
	8	0.6		8	
	9	0.4		9	
	ID	Oe I		10	
	1 Watted Width	201		11 Do	
	2 900 m	0.4		12 7-97	PPM
	3 Interval	0.6		13 85.5	90
	4 00g W	and the second s		14 18.6	100
TE	5	0.5		15	
	V	0.5		16	
	7	0.6		17	
	8	0.5		18	
	9	0.4		19	
	10	<0.1		20	
10	1 Watted Wight	0.1		21 7.75	PDu4
	2 9.0 M	0.6		22 81-6	PPM To
	3 Interval	0.7		23 18.0	00
T	4 009M	0.7		24	
TF	5	0.8		25	
		0.7		26	
	4	0.7		.1	
	8	0.7			
	9	0.5	i te		14
	10	40.1		n	
	ß				7

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Signed: Alache Mutchell	Date: May 2/ 2007	1
Organization: EAEr her	Position: Euro- Europ	
February 5 2007		D 2

WBID 1252 Site

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

		Distance from	Depth	Rank	Assigned Rank	Sorted depth.	
	7.	Stream edge				2.0000000000000000000000000000000000000	
TG	1	Westerd Width	0.1	ļ	100		
10	2	0.0	0.4		2 7.77	POU 7-56	
	3	Interval	0.7		3 7	Pour 1-36	
	4	0.7	0.5		4 18.4	°C	
	5		Oe6		5		
	0		0.6		6		
	7		0-5		7		
	8		0.5		8		
	9		0.4		9		
	10		20.1		10	141	
	1	Watted Widt	h 0.1		11 700		
	2	7.0	0.4		12 7.75	5.04	
T	3	Interval	0.4		13 8/-9	Pom	
IH	4	0.7	0-3		14 18.1	60	
	5		0.3		15		
			0.3	1	16		
	97		0-3		17		
	8		0-3		18		
	9		0.3	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	19		
	10		50-1		20		
		Wetled Widt		0.1		***	
	2	De5	1		21 DO		
				0.6	22 7-33	PPM	
TI	3	Interval 0.8		0.7	23 76.6	100	
1	4	Oe O		0.8	24 / 7.8	100	
	5			0.7	25		27
	0			0.7	26		100 100 100 100
	7			0.8			
	8			0-7		170	
	9			0-4			
	10			50.1	n		
				1	3		
		ж					

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

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Signed: Alaso Withtell	Date: May 21, 2007
Organization: EAR he	Position: Eur- Europ
February 5, 2007	Page 25

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

Distance from	Depth	Rank	Assigned Rank	Sorted depth
Stream edge			5-2.	,-
1 Wetter Widt			1 70	
2 80	0.8	,	2 70	8 = PW
3 Interval	100		3 477 78	- 5 %
4 0-8	>1.0		4 17.6	100
5	>100		5	
9	>1.0		6 RUN	/
7	21-0		1 7	
3	0.9		8	
7	0.8		9	
0	x 70.1		10	
i Wetter Wid	HU <001		11 00	
2 8.0 mg	0.4		12 7-67	P+W
2 8.0 m	0.6		13 8/01	10/
+ 0.8 M	0.6		14 17.6	60
5	Dela		15	
0	0.9		16 RUN	
1	0.9		17	7
7	0.5		18	
7	0.6		19	
D	<0.1		20	
			21	
			22	
The state of the s			23	
			24	
			25	
			26	
1000				
				5
				1 33
			n	- Company
			*	
141				

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

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Signed: (Jaels Milatell)	Date: May 21, 2007	1
Organization: EAE, Mes-	Position: Eur Eugh	

February 5, 2007

WBID#	1252
Site#	2

Field Data Sheets for Recreational Use Stream Surveys Data Sheet B - Site Characterization

(must be completed for each site) Date & Time: Site Location Description (e.g., road crossing): BRIDGE CROSSING HWY N Personnel (Data Collectors): Current Weather Conditions: Facility Name: Childowel Annicipal MIT Weather Conditions for Past 10 days: Permit Number: Drought Conditions?: No drought, ☐: Phase II ☐: Phase II ☐: Phase IV ☐; Unknown ☐ Site Locations: LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS) Site GPS Coordinates: UTM X: 93.92 \$32° U HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data. Global Positioning System (GPS) Interpolation Static Mode Topographic Map or DRG Dynamic Mode (Kinematic) Aerial Photograph or DOQQ Precise Positioning Service Satellite Imagery Signal Averaging Interpolation Other Real Time Differential Processing HORIZONTAL ACCURACY ESTIMATE **GPS Data Quality** Interpolation Data Quality **FOM** ±_ Meters Source Map Scale: 1:24,000 1:100,000 Other_ EPE Feet or ± Meters _Feet or ± PDOP Photos: Upstream Photos Downstream Photos Other Photos Photo ID# Photo Purpose Photo ID# Photo Purpose Photo ID# Photo Purpose 2/822 Uses Observed*: (Uses actually observed at time of survey.) ☐ Swimming ☐ Skin diving ☐ SCUBA diving ☐ Tubing ☐ Water skiing ☐ Wind surfing ☐ Kayaking ☐ Boating ☐ Wading ☐ Rafting ☐ Hunting ☐ Trapping ☐ Fishing None of the above Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use Data Sheet D- Recreational Use Interview when conducting interviews.) Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.) ☐ City/county parks ☐ Playgrounds ☐ MDC conservation lands ☐ Urban areas ☐ Campgrounds ☐ Boating accesses ☐ State parks ☐ National forests ☐ Nature trails ☐ Stairs/walkway ☐ No trespass sign ☐ Fence None of the above ☐ Steep slopes Other: Comments: Indications of Human Use*: (attach photos) ☐ Roads ☐ Rope swings ☐ Foot paths/prints ☐ Dock/platform ☐ Livestock Watering ☐ RV / ATV Tracks ☐ Camping Sites ☐ Fire pit/ring ☐ NPDES Discharge ☐ Fishing Tackle ☐ Other: Comments: February 5, 2007

20 Chantel Feature RUN - 1005

Select one of the fol Channel Feature RIFFLE RUN POOL Downstream View'	Physical Dimensions: Illowing channel feature Distance from access (m) S Physical Dimensions	If so, is there an ores: Width (m)		W? ✓ Yes ☐ No ✓ Yes ☐ No Median Depth (m)	Max. Depth (m)
Channel Feature RIFFLE RUN POOL Downstream View' Select one of the fol	Distance from access (m)	res: Width (m)	-		Max. Depth (m)
Channel Feature RIFFLE RUN POOL Downstream View' Select one of the fol	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
POOL Downstream View' Select one of the fol	s Physical Dimension		arigin (iii)	Median Depur (III)	wax. Depth (III)
POOL Downstream View' Select one of the fol	s Physical Dimension			+	
Downstream View' Select one of the fol	s Physical Dimension	- I- 4h			
Select one of the fol	s Physical Dimension	I- 4h			
	llowing channel featur	If so, is there an	er present at this volvious current?		
Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFFLE			Dength (III)	Wiedian Depun (III)	Max. Depth (m)
RUN					
POOL					
ubstrate*: (These va	lues should add up to 100	004.)			
% Cobble	% Gravel	% Sand	% Silt	/ 00 % Mud/Clay	% Bedroc
Vater Characteristi	cs*: (Mark all that apply	7.)			
0.1	☐ Sewage ☐ Mus		cal None	Other:	
Color:	☐ Clear ☐ Gree	en 🗆 Gray	☐ Mijk	y	
Bottom Deposit:	☐ Sludge ☐ Solid	ds ☐ Fine se	diments None	☐ Other:	
Surface Deposit:	□ Oil □ Scun	n □ Foam	None	☐ Other:	
This information is not to emprehensive understand ecision on the recreation	tach any additional content to be used solely for removaling of water conditions. Use analysis but may point have completed all see	val of a recreational to Consequently, this in to conditions that rections, checked all	use designation but information is not in need further analysi applicable boxes	tended to directly influents or that effect another u	nce a se.
rveyor's Signature:	West of the same	nag	Date of Surve	y: 10190 21 -	

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

TWO COMPANY	000000000
17/7	127
1006	43/10

	Distance from	Depth	Rank	Assigned Rank	Sorted depth
1	Stream edge	0.7			or Pool?)
2	Wetted widtn - 8.5 m	0.6	,	1	
2	8.5 m	0.6	- 1 to -	2	
3	7, 1	0.7		3	Monard distri-
4	Interval	0,6		. 2	-75 ppm,
5	0.8	0.6		5 73	
0	6	0.6	A STATE OF THE STA	6 18.	50
7		0.6		7	
8	**	0.5		8 RUN	
9		0.5		9	icite in the second
10		< Del		10	
1	We Hed Width	Oel		11 50	
2	9.0 M	0.7		12 6.75	DDM
3	Interval	0.9		13 73.4	80 W
4	09 m	0.09		14 18.8	'ot
5	/	0.0		15	
0		0.8		16 RUN	
7		0-5		17	
89		0.3		18	
9		0.2		19	
10		<0.1	*	20	
L	Wetted Width	0,1		21 70	
2	6.5 un	0.7			DOM
23	Insterval	0.8		22 6.63	11%
4	w	0.7		24 18-5	60
5		0.7		25 R.U.	1/
6		0-6		26	
67		0.5		i i	The state of the s
8		0.4			
9		0.3	· .		
10		20.1	75	n	

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Thursto, Miletall	Date: May 21, 2007	
Organization: EAE we.	Position: Low, Eugh	
February 5, 2007		Page 25

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

1252 #2

		Distance from	Depth	Rank	Assigned Rank	Sorted depth
	. No.	Stream edge				
	1	Wolted Width	0-1		1 00	
ID	2	7.0	0.7		2 7.10	DOM
ID	2	Interval	0.6		3 75.9	9/6 9/6
	4	0.7 m	0.8		4 18-8	00
	5		0.8		5 17 UM	1
	5.9		0.7		6	
	7		0.8		7	
	8		0.8		8	
	9		0.6		9	
	10		0.6 20.1		10	
*	-1	Wetter Widt	20,1		11 00	
	2	7.0 W	0.6		12 7-25	PDIA
E	2 3 4	Interval	0,8		13 78./	10
	4	0.7 M	0.8		14 18.9	6n
	5	/	0,8 0,8 0,8		15	1
	6		0.9		16 RUN	
	7		0.9		17	
	7890		0.7		18	
	9		0.3		19	
Control of the Control	10		<0.1		20	
i i	1	Wetter Width	<0.1		21 00	
E3	2	6.0 W	0.6		22 7-37	DRIM
F	23	Interval	0.8		23 80-1	10/2
F	4	0.4 111	0.9		24 19-15	PPM Op
	5		0.9		25	
			0.8		26 RUN	
	67		0.6		1.1	
	8		0.5			
	9		0.3	н		16.00
	10		<001		n	
					0	
		20				

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

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Signed: Olar Whitehell	Date: May 21, 2007
Organization: EAE, We-	Position: Euro

1262 49.

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

		1652 49			*	₩
		Distance from	Depth	Rank	Assigned Rank	Sorted depth
		Stream edge	A 10 P			
4	1	Worted Widt	1 <0.1		1 PO	
16	2	9,5 M	0.5	7	2 7.40	PPU
	2	Interval	0.6		3 82.3	9/0
	4	009	0.5		4 19.2	500-
	5		0-3		5 RUN	
	5		0.2		6	
	7		0.2		7	
	8		0.4		8	
	9		0.2		9	
	10		0.1		10	800
AZ DA	1	Wetted Width	0.1		11 00	
_	2	9.5 W	0-3		12 7.68	DOM
IH	234	Interval	0.1		13 83-1	786
1 260	4	0.9 M	50.1		14 19.49	C or
	5		0.1		15 RUN	
	6		011		16	
	7		0-2		17	
	8		0.3		18	V yes
	910		004		19	
	19		<0.1		20	
100	1	Netted Widt	1 <001			49 DOM
_	2	805 M	Oe1		22 82-1	96
TI	234	Interval	0.2		23 19-	3 2
	4	M	0.2		24 RUN	
	5		0.3		25	
	0		0.4		26	
	7		0.4			
	789		0.5			
			0.5	12		4. 40
	10		< 0e1	8	n	31/
			ED ES ES EST			

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Matell	Date: Mey 21, 200)
Organization: EAE - Que	Position: Eur-Eng
February 5, 2007	Page 25

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

1252 #2

		Distance from	Depth	Rank	Assigned Rank	Sorted depth
		Stream edge				-
丁	l	Wetted Width	<0-1		1 Do	
)	2	Stream edge Welted Width	0.4		2 7-67	PDW
			006		2 7-67 3 84.5	PPW /o
	4		Oe 6		4 19. </td <td>00</td>	00
	5		0-6		5	
	6		0-7		6 KVV	
	345.97		0.8		7	
	8		0.6		8	
	9		Det		9	
	9		<0el		10	
	1	Wested Widt	h 0-1		11 00	
	2	8.54	0.6		12 7-42	
	3		0.9	3	12 7-42 13 8/8	119/
	4		0.9	V	14 19.3	ec ec
	5		0.9		- 15	
	6		0.9		16 Q.A	1
	7		0.8		17	
	8		0.7		18	
	9		0.4		19	N. S.
	ID		<0.)		20	
					21	
					22	
					23	
			1		24	
					25	
					26	
						9
		0		72 No. 10		
					n	
					- T	
		44				

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

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Signed: Aprilo-Witchell	Date: May 21, 200)
Organization: EAE, Wer	Position: Euro Frego
February 5, 2007	Page 25

WBID#	1252
Site#	3

Field Data Sheets for Recreational Use Stream Surveys Data Sheet B - Site Characterization

(must be completed for each site) Site Location Description (c.g., road crossing): BRIDGE CROSSING Date & Time: 2:00_ @ CR NW 1200 Personnel (Data Collectors): Current Weather Conditions: Facility Name: Chilhower Municipal Weather Conditions for Past 10 days: Permit Number: Drought Conditions?: No drought ☑: Phase I □: Phase II □: Phase II □: Phase IV □: Unknown □ Site Locations: LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS) Site GPS Coordinates: UTM X: 38-53552° N 93. 92432°W HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.) Global Positioning System (GPS) Interpolation Static Mode Topographic Map or DRG Dynamic Mode (Kinematic) Aerial Photograph or DOQQ Precise Positioning Service Satellite Imagery Signal Averaging Interpolation Other Real Time Differential Processing HORIZONTAL ACCURACY ESTIMATE **GPS Data Quality** Interpolation Data Quality FOM + Meters Source Map Scale: 1:24,000 1:100,000 Other EPE ±, Feet or ±_ Meters ___Feet or ±___ PDOP Photos: Upstream Photos Downstream Photos Other Photos Photo ID# Photo Purpose Photo ID# Photo Purpose Photo ID# Photo Purpose 23 N. 24 25 ×26 Uses Observed*: (Uses actually observed at time of survey.) ☐ Swimming ☐ Skin diving ☐ SCUBA diving ☐ Tubing ☐ Water skiing ☐ Wind surfing ☐ Kayaking ☐ Boating ☐ Wading ☐ Rafting ☐ Trapping ☐ Fishing None of the above ☐ Hunting ☐ Other: Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use Data Sheet D- Recreational Use Interview when conducting interviews.) Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.) ☐ City/county parks ☐ Playgrounds ☐ MDC conservation lands ☐ Urban areas ☐ Campgrounds □ Boating accesses ☐ State parks ☐ National forests ☐ Nature trails ☐ Stairs/walkway ☐ Fence ☐ No trespass sign ☐ Steep slopes None of the above Other: Comments:

☐ Roads	☐ Rope swings	☐ Foot paths/prints	☐ Dock/platform	☐ Livestock Watering	☐ RV / ATV Tracks
☐ Camping Sit	tes	☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle	☐ Other:
Comments:	No	sign of hum	nan use.	Mr TH T	121/2007
February	5, 2007	, ,		CEW-M-D	Page 23

70 Channel Feature 100% Run Site 3

eam Morpholog	gy:	ID#_(2	202:		U		
Upstream View's	S Physical Dimension	ons: Is th	nere any water p	resent at	this view	? □ Yes □ No	
		Ifs	so, is there an ob	vious ci	irrent?	☐ Yes ☐ No	
Select one of the	following channel						
Channel Feature	Distance from acces	ss (m)	Width (m)	Leng	lh (m)	Median Depth (m)	Max. Depth (m)
RIFFLE							
RUN							
POOL	0		15	10	00	0.8	>1.0
	w's Physical Dime	I	f so, is there an			ew? □ Yes □ No	
Channel Feature	Distance from access		Width (m)	Leng	th (m)	Median Depth (m)	Max. Depth (m)
RIFFLE			33.12.11 ()	Deng	in (m)	wiedian Depth (III)	Max. Depth (III)
RUN							
POOL	0		15	50)	0.8	>1.0
strate*: (These	values should add up	to 100%.				0.0	7700
% Cobbl			% Sand		% Silt	/60 % Mud/Clay	% Bedroc
a set on the second of the	stics*: (Mark all that						
Odor:	☐ Sewage ☐] Musky	☐ Chemic	al	None	☐ Other:	
Color:	☐ Clear ☑	Green	☐ Gray		☐ Milky	☐ Other:	
Bottom Deposit:	☐ Sludge ☐	Solids	☐ Fine sec	liments	None	☐ Other:	
Surface Deposit:	□ Oil □	Scum	☐ Foam		None None	☐ Other:	
s information is no orehensive understation on the recreation	anding of water condi on use analysis but ma ou have completed	removal of tions. Con ay point to all sectio	of a recreational unsequently, this in conditions that notes, checked all	se desigr formatio eed furth	n is not into er analysis ble boxes	ather is to provide a more ended to directly influe or that effect another u	nce a se. is complete.
veyor s signature	Morto. M.	dell	Uf	Date	of Survey	: May 21, 28	207

S WBID 1252 SITE 3

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

	0					
		Distance from	Depth	Rank	Assigned Rank	Sorted depth
		Stream edge	ę n	7	(Riffle, Pu	or Pool?)
TA	1	Notted width=	0.1		1	1
H	2	Netted width=	720.8		2	mail (190
	2		21.0	and the same of th	3	No. of garden 1
	4	Interval	71.0		4	13000
		1.0 m	>1.0	- 1267	5 D.O. = 3.	66 00m
	4974	7.50	0.8		6	66 ppm,
	7	7.7	0.9	121	7 2	1.000
	- 6	An 1 1	0.8	Ling Services	- 8	1.00
	a	Vi.	0.4		9 8	da/
	9		0.1		10	110
_		Wetter Widt			11 00	
	1	# 12-0 m	0.3		12 44.0	1
TB	2	Interval	0.6	 	13 44.5	Dong %
. 13		1-2 m	0-7		14 20.9	9
	45	1 - Em V/	0.8		15	
	9		0-9		16	
	7		1-0		17 PM	4
					18	
	89		0.9		19	
	10		0.6		20	
		Wettestuidt	h 0.1		The state of the s	
	1	12.0M			21 DO 22 3-02	
Tc	2	Leon	0-7		22 3-02 23 3\$.8	PAR
		In Teg Val	×1.0		23 34.6	0
	4	1-2 M	510		24 /9-8	60
			71.0		25	
	0	 	21.0		26 DVV	
	7		>1.0		.: RUN	
	8		70.0		<u> </u>	
	9		21.0			
	10	-	71-0		n	
		(a)				2.75

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Jack Mulettell	Date: May 21, 2007
Organization: EAE, hee.	Position: Eur Engl
February 5, 2007	Page 25

WBID 1252 SITE 3

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

		Distance from	Depth	Rank	Assigned	l Rank	Sorted depth	
		Stream edge						
D	L	Wetted Width	0,1			20		
	2	10.0 m	0.7	,	2	4-12	DOM	
	3	(uterval)	0.8		3 </td <td>5-8</td> <td>19°</td> <td></td>	5-8	19°	
	4	1.0 m	0-9			20-8	100	
	5		0-7		5			
	6		0.7		6			
	7		0-6			PIN		
	8		0.5		8			10
	9		0.3		9			
	10		Del		10			
-	1	Wetted Width				0		
	2	1000 m	71.0		12 3	3.54	PPW	
	2	Interva!	> 1.0		13 3	9.0	1%	
TE	4	1.0m	710			8-9	100/0	
	5		71.0		15	18/10		100
	0		51.0		16	0.1		
	7		21.0		17	RW		
	7		0.9		18			
	9		0.5		19			
	10		00)		20	U		
9.	1	Wettled Widt	h 0.2		21	50		
	2	10.0	>1.0		22	3-52	7-PW1	
	3	luter	>100		23	37-8	1 9/	
T	4		51.0		24	18.7	01	
TF	5		51.0		25		STATE OF THE PARTY	
	6		>1.0		26	0		
	7		71.0			KW		
	978		0.9					
	9		0.6					
	10		0.1		n			
			1000					

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

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Signed: Mall Mulatiell	Date: 4/262/62007
Organization: EAE, hee.	Position: Eur. Engs
February 5, 2007	Page 25

Data Sheet C – Cross-Sectional Depth Measurements (for estimation of median depth)

		Distance from	Depth	Rank	Assigned Rank	Sorted depth	
		Stream edge					
-	1	Wested Width	Oel		1 DO		
18	2	Stream edge Wested Wifth 10.0 m	0.5	"	2 3.96	DAM	
	3		0.8		3 46.2	PDW %	
	234		0.8		4 18.9	00	1
	5		0.7		5	(C)	
	10		0.6		6		
	97		0.4		7		
	8		0.2		8 RVV		
	9		0.2		9		1
	9		<0.1		10		1
No. of the latest of the lates	1	Wested Width	<0e1		11 20		
		10 m	Oct		12 /0 /0	now 400 W.	1
H	3	luterval	0.3		13 48.3	106	1
1	2 3 4	1.0 W	0,5		14 19.2	1/2	1
	5		0.7		15		1
	6		0.5		16		1
	7		0.4		17 KUN		1
	8		0.4		18		1
	9		0.2		19		1
	10		<0.1		20		1
a a	1	Wetted Width	<0.1		21 DO		
		11-0 m	0.8		22 4.80	»РИ	1
	2 3 4	Interval	>1.00		23 58.0	%	1
I	4	1.1 00	71.0		24 19.0	87	1
	5		0.7		25	- A	* 188
	4		0.4		26	/	
	7	1	0.5		I. RVM		1
	8		0.5				1
	9		0,3				1
	9		0.1	44.7	n		
					No.		
				W.		(F.) =	
							_

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

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I, the undersigned, hereby affir	m to the best of my kn	owledge, that all infor	rmation reported on this UAA
datasheet is true and accurate.		= 1	· v
MSU 9/11	tall	- Our e	1 0001

Organization: <u>AE</u>, <u>Inc.</u> February 5, 2007 Position: Eur Eug

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

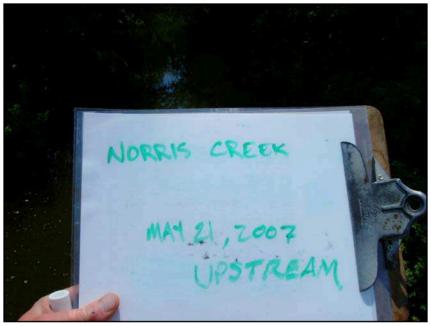
		Distance from	Depth	Rank	Assigned Rank	Sorted depth
		Stream edge				
	1	Wetted Width 8.5	>1.0		1 DO	
	2	8.0	>1.0		2 4.13	THE CHI
15	3		71-0		3 44.1	13/0
	4		1.0		4 18-9	00
	45		0.8		5	
	6		0.6		6	
	7		0-3		7 PIN	
	8		0.3		8	
	9 10		0.2		9	
	DI		<001		10	
	i	Wested Widt	>1.0		11 DO	
_		Wetted Width 8-0	> 100		12 4.18	
K	3		71.0	· G	13 49-2	0/
1	234		1-0		14 19.1	of oc
	5		0-9		15	
			0.8		16	
	7		0.7		17 2/1/	
	978		0-5		18	
			0-4		19	
	910		<0.0		20	
	10		10.0	+	20	
					22	
				-	23	
			e de la companya de l			
					24	
					25	
					26	
				n a a a a a a a a a a a a a a a a a a a		
				-		
				4		
					n	
						a see

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

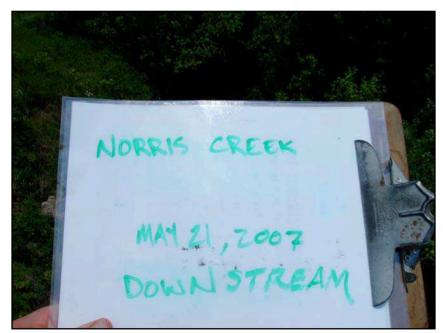
If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

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Signed: Har Mitchell	Date: 1/21, 2007
Organization: EAE, he	Position: Env. Eugh
February 5, 2007	Page 25



Upstream (Site #1) of Norris Creek.



Downstream (Site #1) of Norris Creek.



Upstream (Site #1) of Norris Creek.



Downstream (Site #1) of Norris Creek.



Downstream (Site #2) of Norris Creek.



Upstream (Site #2) of Norris Creek.



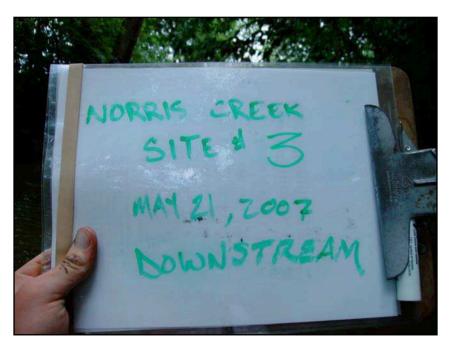
Downstream (Site #2) of Norris Creek.



Upstream (Site #2) of Norris Creek.



Upstream (Site #3) of Norris Creek.



Downstream (Site #3) of Norris Creek.



Upstream (Site #3) of Norris Creek.



Downstream (Site #3) of Norris Creek.

Field Data Sheet for Recreational Use Stream Survey

Stream Name NORKIS CREEK (WBID # 1252)
I. Introduction
Date & Time (include AM or PM):
Interviewed: In person By phone By mail (NOTE: If you are an Interviewee filling out this form to mail back to DNR, proceed to Question #1.)
Interviewee selected because (e.g., house next to stream; standing by stream, etc.) PROPERTY OWNER AT STREAM
Interviewer introduction to Interviewee: "My name is, I work for(name of your employer), and I am collecting information on how people use(name of the stream)" ASK: 1.) Are you willing to respond to a survey about this stream? (It will just take a few minutes.) Yes No If yes, list contact information for the interviewee below: Legal name: I erry Schmidt Current mailing address: 843 MW Hwy N BLAIRSTOWN, Mo 6472 Daytime phone number: (660) 498 3407 E-mail address (optional):
2.a.) Do you live in this area? Yes No If yes, how many years?
2.b.) If you don't live nearby, are you still familiar with this stream? Yes No If yes, how many years? If no, thank the individual for taking the time to talk to you and conclude the interview.
3.) Are you familiar with this particular stretch of the stream? (show them the map, pointing out local landmarks such as roads, bridges, property lines) Yes No If yes, proceed to "II. Personal Use?". If no, proceed to Section V.
 II. Personal Use? 1.) Have you or your family personally used the stream for recreation since November 28, 1975? Yes No If yes, proceed to #3. If no, proceed to #2.
2.a.) List reasons stream not used.
2.b.) Proceed to "III. Witnessed Use?".
3.) How do you use the stream?

	Whole Body Contact Recreation
Swimming	Tubing Snorkeling/Skin Diving Water Skiing
If Interviewee (or	family) used the stream for WBCR since Nov. 28, 1975, ask:
	s)?; season?; only after a rain?) and how often (times/year)?
the protocol)	y? Describe specific location and mark on the map (See map requirements is
	Secondary Contact Recreation
Fishing Wadin	
	family) used the stream for SCR since Nov. 28, 1975, ask: (; season?; only after a rain?) and how often (times/year)?
4.d.) Where, exactly the protocol)	? Describe specific location and mark on the map (See map requirements in
III. Witnessed Us	
 Have you obser No If yes, proce 	ved others using this stream for recreation since Nov. 28, 1975? Yes ed to #2.
If no, proceed	ed to, "IV. Anecdotal Use?".
2.) What kinds of u	ses have you witnessed?
	Whole Body Contact Recreation
Swimming	Tubing Snorkeling/Skin Diving Water Skiing
	essed WBCR use since Nov. 28, 1975, ask the following questions:
(4.	(s)?; season?; only after a rain?) and how often

2.b.) Where, exactly? Describe specific location and mark on the map (Seemap requirements in the protocol).
Secondary Contact Recreation Fishing Wading Boating Trapping Other: List:
Trapping Other. List:
If Interviewee witnessed SCR use since Nov. 28, 1975, ask the following questions:
2.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)?
2.d.) Where, exactly? Describe specific location and mark on the map (Seemap requirements in the protocol).
IV. Anecdotal Use?
 Have you heard about anyone using this stream since Nov. 28, 1975 for recreation – not seer or done yourself, but just heard about it? Yes No If yes, proceed to #2. If no, thank the individual for taking the time to talk to you and conclude the interview. What kind of uses have you heard about?
Whole Body Contact Recreation
Swimming Tubing Snorkeling/Skin Diving Water Skiing
If Interviewee heard of WBCR use since Nov. 28, 1975, ask the following questions:
2.a.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)?
2.b.) Where, exactly? Describe specific location and mark on the map (See map requirements in the protocol).

Secondary Contact Recreation
If Interviewee heard of SCR use since Nov. 28, 1975, ask the following questions:
2.c.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often
(times/year)?
2.d.) Where, exactly? Describe specific location and mark on the (See
map requirements in the
protocol)
V. Others to Contact?
Can you recommend someone else we could contact that knows the stream? Yes No
If yes, that person's contact info (name, address, phone, directions?)
2
If no, thank the individual for taking the time to talk to you and conclude the interview.
VI. Additional Comments
1.) From the Interviewee:
1.) From the Interviewee:
2) From the Interni
2.) From the Interviewer:
VII. Information on Interviewer
vii. Information on interviewer
Has interviewer been trained by Missouri DNR to conduct UAA Interviews?
Yes No If yes, how (check all that apply):
Workshop? (if so, enter date):
On-line training seminar?
On-line training seminar? Followed Interview Instruction Sheets?
Other
Other
Interviewer Information:
Signature:Printed Name:
Timted Italie.
Employer (where applicable): Interviewer's phone #: E-mail:
F-mail.

Field Data Sheet for Recreational Use Stream Survey

/ Data Sheet D—Recreational Use Interview
Stream Name NoreRIS CREEK (WBID # /252)
I. Introduction
Date & Time (include AM or PM):
Interviewed: In person By phone By mail (NOTE: If you are an Interviewee filling out this form to mail back to DNR, proceed to Question #1.)
Interviewee selected because (e.g., house next to stream; standing by stream, etc.) PROPERT
Interviewer introduction to Interviewee: "My name is, I work for(name of your employer), and I am collecting information on how people use(name of the stream)" ASK: 1.) Are you willing to respond to a survey about this stream? (It will just take a few minutes.) Yes No If yes, list contact information for the interviewee below: Legal name: Bruce Young Current mailing address: 568 5w 80/57 Ro Howen Mo 44040 Daytime phone number: (8/6) 850-6764 E-mail address (optional):
2.a.) Do you live in this area? Yes No If yes, how many years?
2.b.) If you don't live nearby, are you still familiar with this stream? Yes No If yes, how many years? If no, thank the individual for taking the time to talk to you and conclude the interview.
3.) Are you familiar with this particular stretch of the stream? (show them the map, pointing out local landmarks such as roads, bridges, property lines) Yes No If yes, proceed to "II. Personal Use?". If no, proceed to Section V.
 II. Personal Use? 1.) Have you or your family personally used the stream for recreation since November 28, 1975? Yes No If yes, proceed to #3. If no, proceed to #2.
2.a.) List reasons stream not used.
2.b.) Proceed to "III. Witnessed Use?".
3.) How do you use the stream?

Whole Body Contact Recreation
Swimming Tubing Snorkeling/Skin Diving Water Skiing
If Interviewee (or family) used the stream for WBCR since Nov. 28, 1975, ask:
4.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)?
4.b.) Where, exactly? Describe specific location and mark on the map (See map requirements in the protocol)
Secondary Contact Recreation
Fishing Wading Boating Trapping Other: List:
If Interviewee (or family) used the stream for SCR since Nov. 28, 1975, ask:
4.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)?
4.d.) Where, exactly? Describe specific location and mark on the map (See map requirements in the protocol)
III. Witnessed Use?
1.) Have you observed others using this stream for recreation since Nov. 28, 1975? Yes No
If yes, proceed to #2. If no, proceed to, "IV. Anecdotal Use?".
2.) What kinds of uses have you witnessed?
Whole Body Contact Recreation
Swimming Tubing Snorkeling/Skin Diving Water Skiing
If Interviewee witnessed WBCR use since Nov. 28, 1975, ask the following questions: 2.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)?

the protocol)
Secondary Contact Recreation Fishing Wading Boating Trapping Other I ist
Trapping Other. List:
If Interviewee witnessed SCR use since Nov. 28, 1975, ask the following questions:
2.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)?
2.d.) Where, exactly? Describe specific location and mark on the map (Seemap requirements in the protocol)
IV. Anecdotal Use?
 Have you heard about anyone using this stream since Nov. 28, 1975 for recreation – not seen or done yourself, but just heard about it? Yes No If yes, proceed to #2. If no, thank the individual for taking the time to talk to you and conclude the interview. What kind of uses have you heard about?
Whole Body Contact Recreation
Swimming Tubing Snorkeling/Skin Diving Water Skiing
If Interviewee heard of WBCR use since Nov. 28, 1975, ask the following questions:
2.a.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)?
2.b.) Where, exactly? Describe specific location and mark on the map (See map requirements in the protocol)

Secondary Contact Recreation
Fishing Westing D.
If Interviewee heard of SCR use since Nov. 28, 1975, ask the following questions:
2.c.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often
(times/year)?
2.d.) Where, exactly? Describe specific location and mark on the (See
map requirements in the
protocol)
V. Others to Contact?
Can you recommend someone else we could contact that knows the stream? Yes No
If yes, that person's contact info (name, address, phone, directions?)
If no, thank the individual for taking the time to talk to you and conclude the interview.
VI. Additional Comments
vi. Additional Comments
1.) From the Interviewee:
1.) From the Interviewee:
2.) From the Interviewer:
2.) From the interviewer:
VII. Information on Interviewer
Has interviewer been trained by Missouri DNR to conduct UAA Interviews?
I es No If yes, how (check all that apply).
Workshop? (if so, enter date):
On-inic training seminary
Followed Interview Instruction Sheets?
Other
Interviewer Information:
Signature: Printed Name:
rimited ridille.
Employer (where applicable): Interviewer's phone #: E-mail:
Interviewer's phone #: E-mail:

Field Data Sheet for Recreational Use Stream Survey

Data Sheet D—Recreational Use Interview
Stream Name MORRIS CREEK (WBID # 1252)
I. Introduction
Date & Time (include AM or PM):
Interviewed: In person By phone By mail (NOTE: If you are an Interviewee filling out this form to mail back to DNR, proceed to Question #1.)
Interviewee selected because (e.g., house next to stream; standing by stream, etc.) PROPERTY OWNER PLATALENT TO ACCESS
Interviewer introduction to Interviewee: "My name is, I work for(name of your employer), and I am collecting information on how people use(name of the stream)" ASK: 1.) Are you willing to respond to a survey about this stream? (It will just take a few minutes.) Yes No If yes, list contact information for the interviewee below: Legal name: Term Terome Current mailing address: //58 NW 90/ Ps. Blansfown Daytime phone number: (660) 498-3558 E-mail address (optional):
2.a.) Do you live in this area? Yes No If yes, how many years?
2.b.) If you don't live nearby, are you still familiar with this stream? Yes No If yes, how many years? If no, thank the individual for taking the time to talk to you and conclude the interview.
3.) Are you familiar with this particular stretch of the stream? (show them the map, pointing out local landmarks such as roads, bridges, property lines) Yes No If yes, proceed to "II. Personal Use?". If no, proceed to Section V.
 II. Personal Use? 1.) Have you or your family personally used the stream for recreation since November 28, 1975? Yes No If yes, proceed to #3. If no, proceed to #2.
2.a.) List reasons stream not used.
2.b.) Proceed to "III. Witnessed Use?".
3.) How do you use the stream?

Whole Body Contact Recreation
Swimming Tubing Snorkeling/Skin Diving Water Skiing
If Interviewee (or family) used the stream for WBCR since Nov. 28, 1975, ask:
4.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)?
4.b.) Where, exactly? Describe specific location and mark on the map (See map requirements in the protocol).
Secondary Contact Recreation
Fishing Wading Boating Trapping Other: List:
o Ctitet. List.
If Interviewee (or family) used the stream for SCR since Nov. 28, 1975, ask:
4.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)?
4.d.) Where, exactly? Describe specific location and mark on the map (See map requirements in the protocol)
III. Witnessed Use?
1.) Have you observed others using this stream for recreation since Nov. 28, 1975? Yes No
If yes, proceed to #2. If no, proceed to, "IV. Anecdotal Use?".
2.) What kinds of uses have you witnessed?
Whole Body Contact Recreation
Swimming Tubing Snorkeling/Skin Diving Water Skiing
If Interviewee witnessed WBCR use since Nov. 28, 1975, ask the following questions:
2.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)?

2.b.) Where, exactly? Describe specific location and mark on the map (Seemap requirements in the protocol)
Secondary Contact Recreation Fishing Wading Boating Trapping Other: List:
Trapping Other. List:
If Interviewee witnessed SCR use since Nov. 28, 1975, ask the following questions:
2.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)?
2.d.) Where, exactly? Describe specific location and mark on the map (Seemap requirements in the protocol).
IV. Anecdotal Use?
 1.) Have you heard about anyone using this stream since Nov. 28, 1975 for recreation – not seen or done yourself, but just heard about it? Yes No If yes, proceed to #2. If no, thank the individual for taking the time to talk to you and conclude the interview. 2.) What kind of uses have you heard about?
Whole Body Contact Recreation Swimming Sporkeling/Skin Diving Weter Skiller Sporkeling/Skin Diving Weter Skiller Sporkeling
Shorkening/Skin Diving Water Sking
If Interviewee heard of WBCR use since Nov. 28, 1975, ask the following questions:
2.a.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)?
2.b.) Where, exactly? Describe specific location and mark on the map (See map requirements in the protocol).

Secondary Contact Recreation
Fig. 1. The state of the state
If Interviewee heard of SCR use since Nov. 28, 1975, ask the following questions:
2.c.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often
(times/year)?
2.1) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
2.d.) Where, exactly? Describe specific location and mark on the (See
map requirements in the
protocol)
V. Others to Contact?
Can you recommend someone else we could contact that knows the stream? Yes No
If yes, that person's contact info (name, address, phone, directions?)
If no, thank the individual for taking the time to talk to you and conclude the interview.
VI. Additional Comments
1.) From the Interviewee:
2.) From the Interviewer:
VIII I C
VII. Information on Interviewer
Has interviewer been trained by Missauri DND
Has interviewer been trained by Missouri DNR to conduct UAA Interviews? Yes No If yes, how (check all that apply):
Workshop? (if so, enter date):
On-line training seminar?
Followed Interview Instruction Sheets?
Other
Interviewer Information:
Signature:
Employer (where applicable): Interviewer's phone #: E-mail:
Interviewer's phone #: E-mail: